

5      **What is claimed is:**

1. A method of applying a two-component pavement marking composition comprising:  
providing a two-component composition wherein a first part is provided in a first  
chamber and a second part is provided in a second chamber and wherein the first and  
10      second chambers have a total volume ranging from about 0.1 liters to about 10 liters;  
advancing the first part and second part into a mixing device forming a mixture; and  
dispensing the mixture with an applicator onto pavement.

2. The method of claim 1 wherein the total volume of the first and second chambers is  
15      less than 5 liters.

3. The method of claim 1 wherein the composition is provided in a hand-held gun-type  
applicator.

4. The method of claim 1 wherein the first chamber and second chamber are provided in  
20      the form of a removable cartridge.

5. The method of claim 4 wherein the removable cartridge comprises a rigid material.

6. The method of claim 5 wherein the removable cartridge comprises molded plastic.  
25

7. The method of claim 5 wherein the removable cartridge comprises lined cardboard.

8. The method of claim 4 wherein the removable cartridge is disposable.  
30

9. The method of claim 1 wherein the first chamber and second chamber are provided by  
a rigid housing.

10. The method of claim 9 wherein removable collapsible tubes are provided within the  
35      first and second chambers.

- 5 11. The method of claim 9 wherein the two-component composition is poured into the first and second chambers.
12. The method of claim 1 wherein the mixing device is a static mixer.
- 10 13. The method of claim 12 wherein the static mixer comprises a rigid plastic material.
14. The method of claim 13 wherein the static mixer is disposable.
- 15 15. The method of claim 1 wherein the applicator is a spray head
16. The method of claim 15 wherein the spray head dispenses the mixture as a mist.
17. The method of claim 1 wherein the applicator provides a substantially continuous line having a width of at least about 5 cm.
- 20 18. The method of claim 17 wherein the line has a film thickness of at least about .25 mm when dispensed at a distance of less than about 15 cm.
19. The method of claim 1 wherein the applicator is a ribbon extrusion head.
- 25 20. The method of claim 1 further comprising embedding a plurality of optical elements in the mixture after dispensing the mixture on the pavement.
- 30 21. A method of applying a two-component pavement marking composition comprising:  
providing a two-component composition wherein a first part is provided in a first chamber and a second part is provided in a second chamber and wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 20 liters;  
advancing the first part and second part into a mixing device forming a mixture; and  
dispensing the mixture with an applicator onto pavement;
- 35 wherein the composition is provided in an apparatus that is substantially free of hoses that continuously meter the composition.

5

22. A method of applying a two-component pavement marking composition comprising:  
providing a two-component composition in a cartridge wherein a first part is provided  
in a first chamber of the cartridge, a second part is provided in a second chamber of the  
cartridge and the cartridge has a total volume ranging from about 0.1 liters to about 5  
liters;  
mixing the first part and second part by means of advancing the first part and second  
part through a disposable static mixing tube;  
dispensing the mixture onto pavement with a spray applicator.

10

15

23. An apparatus comprising:

a means for accepting a cartridge wherein the cartridge comprises at least two  
chambers wherein the first chamber comprises a first part of a two-part  
composition and the second chamber comprises a second part of a two-part  
composition;

20

a means for advancing the first part and the second part from the cartridge into a  
static mixing device forming a mixture; and  
a means for spraying the mixture.

25

24. The apparatus of claim 23 wherein the first and second chambers have a total volume  
of less than 5 liters.

25. The apparatus of claim 23 wherein the apparatus is substantially free of hoses that  
continuously feed meter the composition.

30

26. The apparatus of claim 23 wherein the cartridge is comprised of a rigid plastic  
material.

27. The apparatus of claim 23 wherein the static mixing device is a disposable static  
mixing tube.

35

5 28. The apparatus of claim 23 wherein the means for spraying provides the mixture as a mist.

29. The apparatus of claim 23 wherein the apparatus is a hand-held gun-type applicator.

10 30. The apparatus of claim 23 further comprising a harness.

31. The apparatus of claim 23 wherein the apparatus is further attached to a cart having wheels.

15 32. An apparatus comprising:

- a first chamber and a second chamber wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 10 liters;
- a means for advancing the composition provided in the chambers into a static mixing device forming a mixture; and
- 20 a means for spraying the mixture.

33. An apparatus comprising:

- a first chamber and a second chamber wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 20 liters;
- 25 a means for advancing a composition provided in the chambers into a static mixing device forming a mixture; and
- a means for spraying the mixture;

wherein the apparatus is substantially free of hoses that continuously meter the composition.

30

34. A method of applying a two-component composition comprising:

- providing a two-component composition wherein the first part is in a first chamber and the second part is in a second chamber and wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 10 liters;
- 35 advancing the first part and the second part into a static mixing device forming a mixture; and

5 dispensing the mixture with a spray applicator.

35. A method of applying a two-component composition comprising:

providing a two-component composition wherein the first part is in a first chamber and  
the second part is in a second chamber and wherein the first and second chambers have  
10 a total volume ranging from about 0.1 liters to about 20 liters;

advancing the first part and the second part into a static mixing device forming a  
mixture; and

dispensing the mixture with a spray applicator;

wherein the composition is provided in an apparatus that is substantially free of hoses  
15 that continuously meter the composition.

36. A pavement surface having a marking prepared according to the method of claim 1.

37. A pavement surface having a marking prepared according to the method of claim 21.

38. A pavement surface having a marking prepared according to the method of claim 22.  
20